

ABSTRACT OF DISCLOSURE

A waveform equalizer in that a delay element 2 of an FF filter 9 into which a reception signal S1 is inputted is connected via a tap arrangement control switch 8 to a weighting device 3, and the output of the weight device 3 is inputted into an adder 4. The output of the adder 4 is entered into a discriminator 5 to become an equalization output S2. The equalization output S2 is entered into a delay element 7 of an FB filter 10. The delay element 7 is connected via the tap arrangement control switch 8 to the weighting device 3, and the output of the weighting device 3 is entered into the adder 4. The tap arrangement control switch 8 ON/OFF-controls the tap arrangement. The tap coefficient monitoring unit 11 monitors the respective tap coefficients of the weighting device 3. When the equalization operation cannot be carried out under initially-set tap arrangement, the equalization operation is restarted from the beginning of the reception signal. An impulse response predictor 12 predicts an impulse response of a transfer path based upon the reception signal S1 and the equalization output S2.